

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: A61K 31/70, A61F 13/28, G02C 7/02	A1	(11) International Publication Number: WO 95/07085 (43) International Publication Date: 16 March 1995 (16.03.95)
(21) International Application Number: PCT/US94/10175 (22) International Filing Date: 7 September 1994 (07.09.94) (36) Priority Data: 08/116,908 7 September 1993 (07.09.93) US (71) Applicant: ESCALON OPHTHALMICS, INC. [US/US]; 182 Tumawick Circle, Skillman, NJ 08558 (US). (72) Inventor: BENEDETTO, Dominick, A.; 124 Avenue B, Bayonne, NJ 07002 (US). (74) Agent: SAUNDERS, Thomas, M.; Lorusso & Lond, 440 Commercial Street, Boston, MA 02109 (US).	(81) Designated States: CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>	

(54) Title: **SURFACE ACTIVE VISCOELASTIC SOLUTIONS FOR OCULAR USE**

(57) Abstract

This invention encompasses a modified mucopolysaccharide solution for use as a biologically active therapeutic infusion comprising a pharmaceutical grade viscoelastic fraction selected from a group consisting of an acyl-substituted hyaluronic acid having acyl groups thereof with three to twenty carbon atoms and mixtures of said acyl-substituted hyaluronic acid with hyaluronic acid, and hydroxypropylmethylcellulose. In particular these solutions have a surface tension of between 40 and 65 dynes/cm²; particularly a viscoelastic fraction has an average molecular weight of at least 50,000. In some embodiments a physiological buffer fraction is present. This invention further encompasses a method of using the claimed composition.